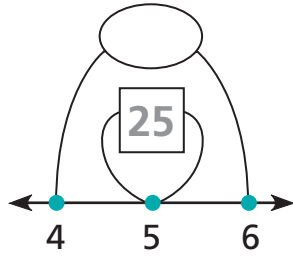


# Using Square Numbers to Remember Other Multiplication Facts

NCTM Standards 1, 2, 6, 7, 8, 9, 10

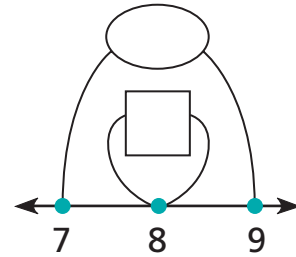
Complete the diagrams and number sentences.

1



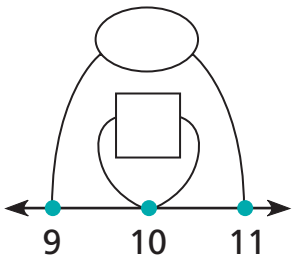
$$\begin{array}{r} 5 \times 5 = \square \\ 4 \times 6 = \bigcirc \end{array}$$

2



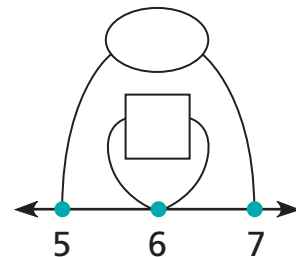
$$\begin{array}{r} 8 \times 8 = \square \\ 7 \times 9 = \bigcirc \end{array}$$

3



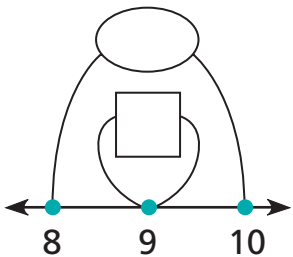
$$\begin{array}{r} 10 \times 10 = \square \\ 9 \times 11 = \bigcirc \end{array}$$

4



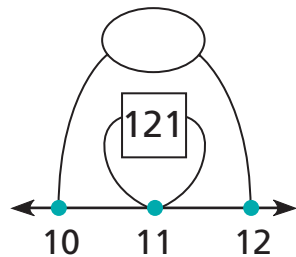
$$\begin{array}{r} 6 \times 6 = \square \\ 5 \times 7 = \bigcirc \end{array}$$

5



$$\begin{array}{r} 9 \times 9 = \square \\ \bigcirc \times \bigcirc = \bigcirc \end{array}$$

6



$$\begin{array}{r} \square \times \square = \square \\ 10 \times 12 = \bigcirc \end{array}$$

Complete the related number sentences.

7

$12 \times 12 = \square$

$11 \times 13 = \bigcirc$

8

$20 \times 20 = \square$

$19 \times 21 = \bigcirc$

9

$15 \times 15 = \square$

$\bigcirc \times \bigcirc = \bigcirc 224$

10

$25 \times 25 = \square 625$

$24 \times 26 = \bigcirc$

11

$\square \times \square = \square 324$

$17 \times 19 = \bigcirc$

12

$\square \times \square = \square$

$\bigcirc \times \bigcirc = \bigcirc 899$

**13 Challenge** Write two examples that show that:

$$A \times A - 1 = (A + 1) \times (A - 1)$$

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